

BECK, M.T.

5. 20

method is sensitive and accurate. Robert M. Genderson

2004 2006

Hungary/Chemical Technology - Chemical Products and Their Application. Mineral Salts. Oxides. Acids. Bases, I-5

Atst Journal: Referat Zhur - Khimiya, No 19, 1956, 62086

Author: Szabo, Zoltan; Beck, Mihaly

Institution: None

Title: Recovery of Iodine from Domestic Mineral Waters

Original

Periodical: A jod kinyerese hazai asvanyvizekbol., Magyar kemik lapja, 1955, 10, No 10, 317-318; Hungarian

Abstract: Water is treated with freshly prepared solution of Hg_2Cl_2 , using a 25% excess. Precipitate of Hg_2J_2 is treated with H_2S . The resulting mixture of 3 hydrohalogen acids is oxidized and separated. For recovery of Hg from waste water it is treated with sulfide of alkali metals and filtered through sand. There is given a review of Hg regeneration.

Card 1/1

Beck, M.

✓ 30. On the calculation of successive equilibria -- P.
Hahn, M. Beck (Magyar Kémiai Folyóirat
Vol. 61, 1955, No. 5, pp. 129-133, 9 tabs)

CH A simple method is given for the determination of the free ligand concentration when the total concentration of the central metal atom is known. By further derivation of this equation a relationship is given for the calculation of the free ligand concentration corresponding to the isoelectric point by using conveniently measurable concentration data. By the interpretation of this equation it became evident that the isoelectric point is unattainable in a solution of an auto-complex without the addition of excess ligand. A quantity of ligands equivalent to the valency of the central ion is bound in the complex compound at the isoelectric point and the existence of a free ligand concentration is necessary to maintain this state. The mathematical equations derived by theoretical considerations were applied to investigate the variations of the salt concentration vs. the concentration of ions present by using Cd^{2+} salts which are known for their disposition to form auto-complexes.

①

PM

Mihály,
Beck, Mihály

✓ 4287* Paper Chromatography of Amino Acid-Metal Complexes. Aminosav-fémkomplexek papirkromatográfiája. (Hungarian.) Mihály Beck and József Császár. Magyar kémiai folyóirat, v. 61, no. 12, Dec. 1955, p. 447-448. ①

Elimination of the interfering interaction between the amino acids can be achieved through complex formation with some metal ions, especially with Cu^{2+} . Diagram. 2 ref. 

BECK, MIHALV

BECK, M. T.

...with a ratio of 1:1. ...
...each amino acid migrates as a single spot when applied
separately. The interaction of different amino acids with each other
and with solvents during paper chromatography is discussed, and
it is suggested that the chromatography of amino acid-metal

MIHALY x BECK

C.

Hungary/ Inorganic Chemistry, Complex Compounds

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11457

Author : Beck Mihaly, Toth Kalman

Title : Mechanism of Formation of Thiocyanate Complexes of Trivalent Chromium.
Preliminary Communication.

Orig Pub : A kromrodanid komplexek kepzodesenek machanizmusarol. Elozetes kozlemenye.
Magyar. kem. folyoirat, 1956, 62, No 6, 211-212 (Hungarian; English
summary)

Abstract : Investigation of the formation of $\text{Cr}(3+)$ complexes with SCN^- .
Discrepancies between the obtained data and those found in the literature are attributed by the authors to polymerization processes.

1/1

Colorimetric determination of the fluoride ion based on interference with extractability. Z. G. Szabo, M. T. Beck, and K. Toth (Univ. Szeged, Hung.). *Mikrochim. Acta*, 1958, 181-4 (in English).—Fluoride added to colored metal complexes form colorless fluoro-complexes. The decrease in the extinction is often used as a measure of the F concn. If the color is extd. with an org. solvent such as AmOH the color is concd. and the sensitivity is increased. This procedure was studied by using the ferric thiocyanate and the silicofluoride methods. In the thiocyanate procedure 10 γ /60 ml. F can be detd. in a soln. of pH 2.9. The interfering effects of Ca, Mg, SO₄, Cl, PO₄, and Al were studied also. H. W. Harvey.

JW
1/1 Distr: 4E2c(j)

5
4 May

J-9

HUNGARY / Analytical Chemistry. Analysis of Organic Substances.

E

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42178.

Author : Beck, M. T.; Czassar, J.; Huszka, T.

Inst : Not given.

Title : Paper Chromatography of Amino Acid-Copper (II) Complexes.

Orig Pub: Acta phys. et chem. Szeged, 1958, 4, No 1-2, 35-37.

Abstract: For separating complex compounds of amino acids (I) and Cu by means of paper chromatography, an aqueous solution of I, with a pH of about 8, is agitated for 15 min. with CuCO_3 with slight heating, filtered, and 0.003 ml. of solution (6 mcg. of I) is transferred to Schleicher and Schuell 2043a paper. The chromatogram is then developed with phenol or with o-cresol, saturated with water at 27° , and treated

Card 1/2

HUNGARY / Analytical Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42178.

Abstract: as follows: a) with ninhydrin (II) after decomposition of the complex with ethylenediaminetetraacetic acid (staining with I); b) with rubeanic acid (III) or with 0.2% solution of 8-oxyquinoline (IV) in $\text{C}_2\text{H}_5\text{OH}$ (staining with Cu); or, c) after treatment with solutions of III or IV, the chromatogram is treated with a solution of II. Determined are the values of R_f for Cu complexes of 13 different I. -- Yu. Lyande.

Card 2/2

E-29

HUNGARY / Physical Chemistry. Thermodynamics.
Thermochemistry. Equilibris. Phase
Changes. Physico-chemical Analysis.

B.

Abs Jour : Ref Zhur - Khimiya, No 12, 1959, No. 41548

Author : Huhn, P.; Beck, M.T.

Inst : Not given

Title : Some Mathematical Considerations of
Successive Equilibria

Orig Pub : Acta phys. et chem. Szeged, 1958, 4,
No 1-2, 45-53

Abstract : From known equilibrium constants, the
concentrations of $[I^-]$, $[Cd^{+2}]$, $[CdI^+]$,
 $[CdI_2]$, $[CdI_3^-]$ and $[CdI_4^{2-}]$ were cal-
culated for molecular fractions of cad-
mium iodide in a 10^{-3} to 1 M solution.

Card 1/3

HUNGARY / Physical Chemistry. Thermodynamics.
Thermochemistry. Equilibris. Phase
Changes. Physico-chemical Analysis.

Abs Jour : Ref Zhur - Khimiya, No 12, 1959, No. 41548

Similar calculations were performed for
cadmium bromide, cadmium chloride and cad-
mium thiocyanate solutions. The equili-
brium constants for each stage of complex
ion formation as well as isoelectric points
of several cadmium complexes have been
calculated. A method for the calculation
of dissociation constants of polybasic
acids (based on $[H^+]$ measurements) has been
proposed. The concentrations of $[H^+]$,
 $[SO_4^{2-}]$, $[HSO_4^-]$ and $[H_2SO_4]$ in
 10^{-4} to 1 M H_2SO_4 solutions were computed.

Card 2/3

Distr, 4E20

Reduction of chromium(VI) by different reducing agents.
M. T. Beck and J. Bardi (Univ. Szeged, Hung.). *Acta
Univ. Szegediensis. Acta Phys. et Chem.* (N.S.) 4, 54-8
(1958) (in English).—Twenty ml. of approx. 0.05M Na-
Cr₂O₇ soln. was acidified with perchloric acid and the calcd.
quantity of the reducing agent added. The soln. was dild.
to 50 ml., and the visible and near ultraviolet spectra were
recorded. With the reducing agents H₂O₂, hydrazine per-
chlorate, and hydroxylamine the spectra of the solns. were
identical with that of the aquo complex of Cr(III) in a
soln. of Cr(ClO₄)₃. Changes in the absorption spectra indi-
cate considerable interaction between Cr(III) and the
oxidized forms of the reducing agents As(III) perchlorate,
Sn(II) chloride, Sn(II) perchlorate, and Ti(III) chloride.
E. M. Vanece

Distr: 4820(j)

7 Determination of complex stability constant from catalyst activity. I. Stability constant of iron(III)-triethylenetetramine (TETA) complex. M. T. Beck and S. Goros. (Univ. Szeged, Hung.). *Acta Phys. Serpolicensis, Acta Phys. et Chem. [N.S.]*, 4, 69-65 (1958) (in English).—Since the catalytic effect of Fe(III)TETA on the decompos. of H_2O_2 is inhibited by ethylenediaminetetraacetic acid (EDTA), bec. use of the formation of Fe(EDTA), which has no catalytic activity, $K = [Fe(III)TETA] / ([Fe(III)] \cdot [TETA])$ could be calcd. from the extent of the inhibition and known values of the stability const. of Fe(III)EDTA and the acid dissoci. consts. of TETA and EDTA. The av. value for K from 2 series of kinetic measurements at initial concns. of TETA of 5×10^{-3} and 10^{-3} mole/l., pH 10, was 8.3×10^{10} . K was also calcd. from the increased soly. of Fe(OH)₃ in the presence of TETA owing to formation of Fe(III)TETA, and values of 26.8×10^{10} and 25.3×10^{10} were obtained. E. M. Vanaga.

Distr: 4E2c(j)

The irreversible oxidation of oxygen-carrying osmium complexes. M. T. Beck (Univ. Sussex, Hove, Eng.). *Nature* 235, 102 (1974) in English. — For the prepn. of the irreversible complex, O was bubbled through a soln. of $\text{Co}(\text{NO}_3)_2$ and glycylglycine (I) at pH 7. The $\text{Co}(\text{III})$ complex was prepd. by shaking freshly prepd. $\text{Co}(\text{OH})_2$ with I. The absorption spectra in the visible region and the magnetic properties were detd. The brown intermediate formed at the reversible oxidation is an O-carrying $\text{Co}(\text{II})$ -glycylglycine complex. The product of the irreversible oxidation is the $\text{Co}(\text{III})$ -glycylglycine complex.

P. Schoenberger

g.j.

3
2 May

Distr: 482c(j)/483d

Simple device for study of reactions between liquid and gas phases by a magnetic method. P. Márta and M. T. Beck (Univ. Szeged, Hung.). *Naturwissenschaften* 45, 103 (1958) (in English).—The kinetics of oxidation and oxygenation of Co^{++} complexes was studied by measurements of the change of magnetic susceptibility. A reaction tube for susceptibility measurements by the Guoy method is described. F. Schossberger.

6
2-may
2

ja jg

BECK, M.

Distr: hE2c(1)

Behavior of the Cu(II)-histidine complex. J. Csizsar, L. Kiss, and M. T. Beck (Univ. Szeged, Hung.). *Naturwissenschaften* 45, 210-11 (1958). To explain the color changes (from deep blue to green to brown within 40 days) of aq. Cu(II)-histidine solns. (cf. C.A. 52, 19696g), fresh and aged neutral and acidified solns. were examd. spectrophotometrically and fresh and aged acidified solns. polarographically. Fresh Cu(II)-histidine complex is totally decomposed by acid, whereas the aged soln. contains a Cu(II) complex which is stable in acid solns. Cu(I)-histidine solns. upon autoxidation yield a very similar compd. (cf. Hearon, et al., C.A. 43, 7856b). R. M. Vanaga

2 May

OK

HUNGARY / Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60650.

Abstract: terminated can be considerably increased, if the measurement of the extinction change was carried out in the organic phase after the extraction of the colored compound with organic compounds, i. e., by the determination of the inhibiting influence of the ion to be determined on the extraction. The system $\text{Fe}(3+)$ rhodanide - fluoride was studied as an illustration. Determined amounts of $\text{FeNH}_4(\text{SO}_4)_2$ and NaSCN solutions were mixed at the experiments, the solution of F^- to be determined (10 to 100 %) was added, and pH was adjusted on the level of 2.9 ± 0.03 . The necessity of keeping pH strictly on that level is dictated by the fact that the dissociation of H_2F_2 and thiocyanic acid is inhibited at a lower pH, and hydrocomplexes

Card 2/4

HUNGARY / Analytic Chemistry. Analysis of Inorganic Substances;

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60650.

Abstract: are forming at a higher pH. The extraction was carried out with n-amyl alcohol (15 ml of n-amyl alcohol per 50 ml of the analyzed solution), and the alcohol phase was photometered. The error of F^- determination is +5%. SiF_6^{2-} can be determined by that method also. The method sensitivity is 10 % of F in 50 ml, which is much more than the sensitivity of any other known methods. The following interferes with F^- determination: PO_4^{3-} , organic anions, Al^{3+} , Ca^{2+} and Mg^{2+} (both if more than $5 \cdot 10^{-3}$ mole per liter), SO_4^{2-} (if more than 10^{-4} mole per liter) and Cl^- (if more than $5 \cdot 10^{-3}$

Card 3/4

HUNGARY / Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60650.

Abstract: mole per liter). It is necessary first to separate F from these ions, if they were present.

Card 4/4

84

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120013-8"

COUNTRY : Hungary

ABS. JOUR. : RZKhim., No. 22 1959, No. 78085

AUTHOR : Beck, M. and Goeroeg, S.

INST. : Not given

TITLE : Determination of Stability Constants of Complexes from Their Catalytic Activity. I. Stability Constants of the Complex of Trivalent Iron with*

ORIG. PUB. : Magyar Kem Folyoirat, 65, No 2, 55-58 (1959)

ABSTRACT : See RZKhim, 1959, no 10, 34473.

64

CARD: 1/1

* Triethylenetetraamine

BECK, M.

SCIENCE

PERIODICALS: ~~ACTA ZOOLOGICA~~: Vol. 64, No. 7/8 July/Aug. 1958

MAGYAR KEMIAI FOLYOIRAT

Beck, M. Formation of complex compounds in redox processes. p. 272

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

HUNGARY / Physical Chemistry. Kinetics. Combustion.
Explosions. Topochemistry. Catalysis.

B

Abs Jour: Ref Zhur-Khimiya, No 20, 1959, 70769.

Abstract: elucidate the catalysis mechanism proposed by
Bang (RZhKhim, 1956, No. 22, 2087). -- From
the authors' summary.

Card 2/2

22

BECK, M.

Science

"MAGYAR KEMIAI FOLYOIRAT"

Paper Chromatography of amino-acid-copper complexes. p. 433

Vol. 64, No. 11, Nov. 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 3, No. 4, April 1959
Unclas.

BECK, Mihaly, a kémiai tudományok kandidátusa; (Szeged); GOROG, Sándor
(Szeged)

Amphoteric characteristic of ethylenediaminetetraacetic acid and
its effect on the stability of its metal complexes. Kem.tud.kozl.
MTA 12 no.3:264-277 '59. (KEMI 9:4)

1. Szegedi Tudományegyetem Szervetlen és Analitikai Kémiai Intézete.
(Ethylenedinitrilotetraacetic acid) (Metals)
(Complex compounds)

BECK, MIHALY T.

Kinetic study of the system Fe(III)-triethylenetetramine-H₂O₂. Mihály T. Beck and Sándor Gorcs. *Acta Chim. Acad. Sci. Hung.* 20, 57-66 (1959) (in English).—The limitations of the Fe(III)-triethylenetetramine complex as a model for the enzyme catalase (cf. Wang, *C.A.* 50, 4254) are shown by a detailed study of the system Fe(III)-triethylenetetramine(I)-H₂O₂. I was oxidized by H₂O₂, and this reaction was catalyzed by Fe(III). Fe(OH)₃ also was found to catalyze the decompn. of H₂O₂, and a very active form of Fe(OH)₃ was formed in the presence of I. For fixed concns. of I and H₂O₂, the rate of Fe(III)-catalyzed decompn. of H₂O₂ reached a satn. value. This satn. value varied with the concn. of Fe(III). For I = 10⁻³ mole/l. and H₂O₂ = 10⁻⁴ mole/l. a max. satn. value was found for Fe(III) = 1 × 10⁻⁴ mole/l. A mechanism based on the peculiarly suitable electronic dis-

tribution of the complex is proposed to replace the steric mechanism of Wang (*loc. cit.*). Mark M. Jones

4E205g)
Jug (WA)

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11

CPA

BECK, M.; GOROG, S.

Determination of the complex stability constant on the basis of catalytic activity. I.
The stability constant of iron (III)-triethylenetetramine complex. p.55

MAGYAR KEMIAI FOLYOIRAT. Budapest, Hungary. Vol. 65, no. 2, Feb. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959

Uncl.

BECK, M., GOROG, S.

Determination of the stability constants of protonated metal chelates; a preliminary communication. p. 113

MAGYAR KEMIAI GÖLYÖIRAT. (Magyar Kemikusok Egyesüete) Budapest, Hungary.
Vol. 65, No. 10, Oct. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960

Uncl.

BECK, Mihaly; GOROG, Sandor

Determination of complex stability constant on the basis of catalytic activity. Pt. 1. Magyar kémiai folyóirat 65 no.2:55-58 P 1959.

1. Szegedi Tudományegyetem Szervetlen és Analitikai Kémiai Intézete.

BECK, Mihaly; GOROG, Sandor

Determination of stability constants of propanated metal
chelates. Magy kem folyoir 65 no. 10:413 0 '59.

1. Szegedi Tudományegyetem Szervetlen-es Analitikai-Kémiai
Intézete.

GOROG, Sandor; BECK, Mihaly

Volumetric method for the ultramicrodetermination of iron by means of the 0,1 n KMnO_4 volumetric solution. Magyar kémiai folyóirat

65 no. 5:202-204, 1959.

1. Szegedi Tudományegyetem Szervetlen és Analitikai Kémiai Intézete.

Beck, M.T.

7
 ✓ Protonation of complexes. M. T. Beck and S. Gorog
 (Univ. Szeged, Hung.). *J. Inorg. & Nuclear Chem.* 12,
 383-5 (1960).—Fe(III)-ethylenediaminetetraacetic acid and
 -1,2-diaminocyclohexanetetraacetic acid systems were stud-
 led for complex/free central ion concn. ratio to det. by acid
 effect the stability consts. K_{M-L} , resp., 1.68×10^{14} , 1.80
 $\times 10^{14}$, 5.28×10^6 , and —, and 3×10^{12} , 1.0×10^{12} , 9.0
 $\times 10^6$, and 8.7×10^7 .
 Jack J. Bulloff

4
 gg(NB)

lh

BECK, Mihaly; CSASZAR, Jozsef

Hungarian Chemical Society news. Magyar kem lap 15 no.5/6:271-
273 My-Je '60.

BECK, Mihaly; CSISZAR, Bela

Stability of amino-polycarbonic acid - hydrogen peroxide
mixed compounds. I. Stability of Fe(III)-1,2-diaminocyclo-
hexanetetraacetic acid - H_2O_2 complex. Magyar kem. folyoir.
66 no. 7:259, 262 J1 '60.

1. Szegedi Tudományegyetem Szervetlen és Analitikai Kémiai
Intézete és Kossuth Lajos Tudományegyetem Szervetlen és
Analitikai Kémiai Intézete, Debrecen.

JACIMIRSZKIJ, K. B. (Yatsimirskiy); ZANTHO, Robert es BECK, Mihaly [translators]

Theoretical bases for kinetic methods of analytical chemistry. Kem
tud kozl MTA 16 no.4:375-387 '61.

1. Khimiko-tehnologicheskii institut, Ivanovo, SSSR,

(Chemistry, Analytic) (Reaction kinetics)

BECK, Mihaly T., dr. (Szeged, Beloiannisz ter 7); BARDI, Istvan (Szeged, Beloiannisz ter 7)

Reduction of chromium (VI) in the presence of complex forming agents.
I. Reduction in the presence of ethylenediamine-tetra-acetic acid.
Acta chimica Hung. 29 no. 3: 283-289 '61.

1. Institute of Inorganic and Analytical Chemistry, University of Szeged, Hungary.

(Chromium) (Complex compounds)

GOROG, Sándor (Szeged, Beloiannisz ter 7); BECK, Mihály T., dr. (Szeged, Beloiannisz ter 7)

Volumetric method for the microdetermination of iron with decinormal potassium permanganate solution. Acta chimica Hung 29 no.3:291-296 '61.

1. Institute of Inorganic and Analytical Chemistry, University of Szeged, Hungary.

(Volumetric analysis) (Iron) (Potassium)
(Permanganates)

BECK, Mihaly T., dr. (Szeged, Beloianniss ter 7, Hungary); GOROG, Sandor
(Szeged, Beloianniss ter 7, Hungary)

On the catalytic effect of oxygen-carrying complexes. Study of the
system cobalt (II)-glycylglycine-ascorbic acid-oxygen. Acta chimica
Hung 29 no.4:401-408 '61.

1. Institute of Inorganic and Analytical Chemistry, University of
Szeged.

BECK, Mihaly T., dr. (Szeged, Beloiannisz ter 7); CSISZAR, Bela (Debrecen)

Stability of aminopolycarboxylic acid-hydrogen peroxide
mixed complexes. I. Acta chimica Hung 32 no.1:1-7 '62.

1. Institute of Inorganic and Analytical Chemistry, University
of Szeged (for Beck). 2. Institute of Inorganic and Analytical
Chemistry, L. Kossuth University (for Csizar)

BECK, Mihaly; BITE, Pal; BRUCKNER, Gyozo; CSENTES, Jozsef; CSUROS, Zoltan;
DEAK, Gyula; ERDEY-GRUZ, Tibor; ERDEY, Laszlo; FABIAN, Pal;
FINALY, Istvan; FODOR, Gabor; FODORNE CSANYI, Piroška;
GYORBIRO, Karoly; INZELT, Istvan; KUCSMAN, Arpad; NEUMANN, Erno;
PUNGOR, Erno; SCHNEER, Anna; SCHULEK, Elemer; SZABADVARY, Ferenc

Rules for the Hungarian chemical nomenclature and orthography.
Kem tud kozl MTA 17 no.1/4:1-292 '62.

1. "A Magyar Tudományos Akademia Kemiai Tudományok Osztályának Kézleveníei" szerkeszto bizottsagi tagja (for Bruckner, Csuros, Laszlo Erdey, G.Fodor, and Schulek).
2. "A Magyar Tudományos Akademia Kemiai Tudományok Osztályának Kézleveníei" szerkesztoje (for Erdey-Gruz).
3. "A Magyar Tudományos Akademia Kemiai Tudományok Osztályának Kézleveníei" technikai szerkesztoje (for Finaly).
4. Muvelodesugyi Miniszterium (for Csentes).
5. Magyar Tudományos Akademia Helyesitasi Bizottsage (for Fabian).
6. Nehezipari Miniszterium (for Neumann).

BECK, Mihaly, kandidatus

An account of my study trip to Copenhagen and the 7th International Conference on Co-ordination Chemistry at Stockholm. Kem tud kozl MTA 19 no.1:87-89 '63.

1. Magyar Tudomanyos Akademia Reakciokinetikai Kutato Csoportja, Szeged.

BECK, M.T.

"Complex formation in solution; methods for the determination of the composition and stability constants of dissolved complex compounds" by Hans B., Schlafer. Reviewed by M.T. Beck. Acta chimica Hung 38 no.2:167 '63.

BECK, Mihaly; SERES, Istvan; BARDI, Istvan

Mechanism of the oxidation of cobalt(II)-amino-polycarboxylic acid-complexes by Cr(VI); a preliminary communication. Magyar kem folyoir 69 no.1:46-48 Ja '63.

1. Szegedi Tudományegyetem Szervetlen-Kémiai Intézeté; Magyar Tudományos Akadémia Reakciókinetikai Kutató Csoportja.

BECK, Mihaly; BJERRUM, Jannik

Susceptibility of tetracyano-Ni (II)-ion to forming complexes.
Magy kem folyoir 69 no.10:455-457 '63.

1. Koppenhagai Egyetem Szervetlen-Kemiai Intazete.

BECK, Mihaly, a kémiai tudományok kandidátusa

Newer achievements in the chemistry of complex compounds
in Hungary. Kem tud kozl MTA 19 no.2:181-190 '63.

1. Magyar Tudományos Akadémia Reakciókinetikai Kutatócsoportja,
Szegedi Tudományegyetem.

BECK, Mihaly; GOROG, Sandor

Catalytic properties of oxygen carrier complexes. Magyar kémiai folyóirat
69 no.2:56-60 F '63.

1. Szegedi Tudományegyetem Szervetlen és Analitikai Kémiai Tanszéke,
és Reakciókinetikai Akadémiai Kutató Csoport.

BECK, Mihaly; BARDI, Istvan

Reduction of Cr(VI) in the presence of complex-forming substances. I.
Magy kem folyoir 69 no.2:60-63 F '63.

1. Szegedi Tudományegyetem Szervetlen és Analitikai Kémiai Tanszeke,
és Reakciókinetikai Akadémiai Kutató Csoport.

BECK, Mihaly

Complex-catalyzed decomposition of hydrogen peroxide; re-
marks about the paper by Zoltan Kovacs. Magyar kem folyoir
69 no.12:561-562 D'63.

1. Reakciokinetikai Akadémiai Kutató Csoport, Szeged.

BECK, Mihaly; GAIZER, Ferenc

Stability of mercury (II)-cyanide-halogenide mixed complexes. Magyar kém folyoir 69 no.12:555-559 D'63.

~~Stability of mercury (II)-cyanide-halogenide mixed complexes in dioxane.~~ 560-561

1. Jozsef Attila Tudományegyetem Szervetlen- és Analitikai Kémiai Tanszéke, Szeged; Reakciókinetikai Akadémiai Kutató Csoport.

BECK, Mihaly; GIMESI, Istvan

Effect of ligand on the activation of molecular hydrogen with silver (I) ion. Magyar kémiai folyóirat 69 no.12:552-555 D'63.

1. Jozsef Attila Tudományegyetem Szervetlen- és Analitikai Kémiai Tanszéke, Szeged; Reakciókinetikai Akadémiai Kutató Csoport.

BECK, Mihaly; GOROG, Sandor; KISS, Zoltan

Effect of ethylene-diamine-tetraacetic acid on hydrogen-peroxide-decomposition catalyzed with Fe(III). Magyar kem folyoir 69 no.12:550-551 D'63.

1. Jozsef Attila Tudomanyegyetem Szervetlen- es Analitikai Kemiai Tanszeke, Szeged; Reakciokinetikai Akademiai Kutato Csoport.

BECK, Mihaly, a kemiai tudományok doktora

Effect of complex formation on the reactivity. Magyar kémiai folyóirat
70 no.3:133-138 Mr '64.

1. Chair of Inorganic and Analytic Chemistry, Attila Jozsef
University, Szeged, and Research Group on Reaction Kinetics,
Hungarian Academy of Sciences.

BECK, Mihaly; DOZSA, Laszlo

Solubility of cadmium-thiocyanate and cadmium-cyanide. Magyar
kem folyoir 70 no. 4:163-164 Ap '64.

1. Department of Inorganic and Analytic Chemistry, Attila Jo-
zsef University, Szeged; and Research Group of Reaction Kinetics,
Hungarian Academy of Sciences.

BECK, Mihaly; GAIZER, Ferenc

Interaction of mercury(II)-iodide and Bismuth(III)-iodide in the dimethylformamide solution; a preliminary communication. Magyar kem folyoir 70 no.5:232-233 My '64.

1. Chair of Inorganic and Analytic Chemistry, Attila Jozsef University, Szeged.

BECK, Mihaly; SERES, Istvan; BARDI, Istvan

Reduction of Cr(VI) in presence of complex-forming substances.Pt.2.
Magy kem folyoir 70 no.5:220-223 My '64.

1. Chair of Inorganic and Analytic Chemistry, Attila Jozsef
University, Szeged and Reaction Kinetics Research Group,
Hungarian Academy of Sciences, Szeged.

BECK, Mihaly; CSISZAR, Bela; SZARVAS, Pal

Examination of complex forming characteristics of oxycarbonic acids. Pt. 2. Magyar kem. folyoir 70 no. 5: 217-219 My '64.

1. Chair of Inorganic and Analytic Chemistry, Lajos Kossuth University, Debrecen and Reaction Kinetics Research Group, Hungarian Academy of Sciences, Szeged.

CSISZAR, Bela; HALMOS, Miklos; BECK, Mihaly; SZARVAS, Pal

Examination of complex forming characteristics of oxycarbonic acids.
Pt.1. Magy kem folyoir 70 no.5:214-216 My '64.

1. Chair of Inorganic and Analytic Chemistry, Lajos Kossuth
University, Debrecen, Reaction Kinetics Research Group of the
Hungarian Academy of Sciences and Chair of Organic Chemistry. Attila
Jozsef University, Szeged.

BECK, Mihaly T., dr. (Szeged, Beloiannisz ter 7); GAIZER, Ferenc, dr.
~~(Szeged, Beloiannisz ter 7)~~

On the stability of mercury (II) cyanide-halide mixed complexes.
Acta chimica Hung 41 no.4:423-430 '64.

1. Reaction Kinetical Research Group of the Hungarian Academy
of Sciences, Szeged, and Institute of Inorganic and Analytical
Chemistry of the University, Szeged.

BECK, Mihaly T., dr. (Szeged, Beloiannisz ter 7); SERES, Istvan
(Szeged, Beloiannisz ter 7); BARDI, Istvan, dr. (Szeged,
Beloiannisz ter 7)

On the reduction of chromium (VI) in the presence of complex
forming agents. Pt.2. Acta chimica Hung 41 no.1/2:231-238 '64.

1. Institute of Inorganic and Analytical Chemistry of Attila
Jozsef University, Szeged, and Reaction Kinetical Research
Group of the Hungarian Academy of Sciences, Szeged.

BECK, T. Mihaly, dr. (Szeged, Beloiannis ter 7); LOZSA, Laszlo (Szeged, Beloiannis ter 7)

On the solubility of cadmium thiocyanate and cadmium cyanide.
Acta chimica Hung 41 no.3:291-293 '64.

1. Reaction Kinetical Research Group of the Hungarian Academy of Sciences, Szeged, and Institute of Inorganic and Analytical Chemistry of the University, Szeged.

BECK, M.T., doctor of chemical sciences

Effect of complex formation or reactivity. Acta phys chem
Szeged 10 no.1/2:30-39 '64.

1. Institute of Inorganic and Analytical Chemistry of Attila
Jozsef University, Szeged.

L 53748-65 EWT(j)/T. RM

ACCESSION NR: AT5021760

HU/2502/64/041/01-/0231/0238

AUTHOR: Beck, Mihaly (Bek, H.T.)(Doctor)(Szeged); Seres, Istvan (Sheresh, I.)
(Szeged); Bardi, Istvan (Doctor)(Szeged)

TITLE: Reduction of chromium (VI) in the presence of complex-forming agents.
Part 2: Mechanism of oxidation of cobalt (II) - aminopolycarboxylic acid
complexes by chromium (VI)

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 1-2, 1964.
231-238

TOPIC TAGS: chromium, cobalt, carboxylic acid, oxidation, reduction reaction

ABSTRACT: [English article; authors' English summary omitted] Chromium(VI)
is reduced in acidic solution by the cobalt(II) complexes of various
aminopolycarboxylic acids. The prerequisite of the electron transfer
is the protonation of the aminopolycarboxylic acids. On applying ethylene-
diamine tetraacetate, the intermediate of the complicated oxidation-
reduction process, which is a heteropolynuclear complex containing

Card 1/2

L 63748-65

ACCESSION NR: AT5021760

trivalent cobalt and hexavalent chromium, has a relatively long lifetime.
Orig. art. has: 2 figures, 6 graphs.

ASSOCIATION: Institute of Inorganic and Analytical Chemistry, A. Jozsef
University, Szeged; Reaction Kinetical Research Group of the Hungarian Academy
of Sciences, Szeged

SUBMITTED: 14Feb64

ENCL: 00

SUB CODE: IC, CC

NR REF SOV: 000

OTHER: 006

CPRS

Card 2/2

L 63695-65 . EPA(s)-2/EWP(j)/T/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AT5022238

HU/2502/64/0041/0004/0423/0430

AUTHOR: Bek, Mihaly T. (Bek, M.T.)(Doctor)(Szeged); Gaizer, Ferenc (Gayzer, F.) (Doctor)(Szeged)

TITLE: Stability of mercury (II) cyanide-halide mixed complexes

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 41, no. 4, 1964, 423-430

TOPIC TAGS: spectrophotometry, mercury compound

ABSTRACT: Spectrophotometric investigations on the disproportionation of mixed mercury (II) cyanide-halide complexes showed that there is a linear relation between the logarithms of the equilibrium constant and the difference of the logarithms of the stability products of the parent complexes. The equilibrium constants of these mixed complexes are lower than those of mixed mercury (II) halide-halide complexes. Orig. art. has: 15 formulas, 1 table, 17 graphs.

(card 1/2

L 63695-65

ACCESSION NR: AT5022238

ASSOCIATION: Reaction Kinetical Research Group of the Hungarian Academy of Sciences, Szeged; Institute of Inorganic and Analytical Chemistry, The University, Szeged 2

SUBMITTED: 22Apr64

ENCL: 00

SUB CODE: IC, OP

NR REF SOV: 000

OTHER: 007

JPRS

dm
Card 2/2

BECK, Otto

BECK, Otto, dr.; GACS, Janosne, dr.; UNGAR, Imre, dr.

Exercise therapy of pulmonary tuberculosis. Tuberk. kerdesei 7
no.2:28-31 Apr 54.

1. Az Allami Koranyi Tudoheteggyogyintezet (igazgato: Dessauer
Pal, dr.) kozlemenye.

(TUBERCULOSIS, PULMONARY, ther.

*exercise ther.)

(EXERCISE THERAPY, in various dis.

*tuberc., pulm.)

BECK, R.		28	
Detergent cream. Reapp. Beck. Hung. 1,5972, Jan. 15, 1963. A mixt. of 6000 parts fat alcohol sulfate with 4000 parts mineral oil is stirred at 80° for 2 hrs. until there is a 5-10% wt. loss. Then 2000 parts kaolin or talcum is added as filling material, and 200-240 parts of ethereal oil; also 3 parts of pptd. S may be incorporated. I. F.			
ASM-31A METALLURGICAL LITERATURE CLASSIFICATION			
FROM STORAGE		FROM SHOWN	
SUBJECTS		SUBJECTS	

BECK, T.

Remarks on the article "Stretching Machines in the Linen Industry" published in Magyar Textiltechnika, no. 4, 1955, p. 266. KOHÁSZATI LÓFÁK. (Magyar Banászati és Kohászati Egyesület) Budapest. Vol. 10, no. 4, Jan. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

BECK, T.; KEREXGYARTO, P.

Remarks about Dr. Laszlo Tomorkeny's article "Prospects of Hungarian Hemp Fiber Production and the Hemp Industry Especially in Relation to Synthetic Filaments" in No. 3, 1956 of Magyar Textilechnika. P. 160 MAGYAR TEXTILECHNIKA Budapest No. 4, Apr. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

BECK, T.

What is speed? What is accomplishment? How do we compute...? p. 30.
(Auto-Motor, Vol. 10, No. 8, May 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

Distr: 4E3b

9

4-202(RD)

7 Significant points of complex formation function. 14.
T. Beck and P. Huhä (Univ. Szeged). *Acta. Chim. Acad. Sci. Hung.* 20, 285-337(1959)(in English).—The complex formation function of Bjerrum (*C.A.* 35, 8527⁹), $\bar{n}$, was studied by measuring the stability consts. of complex systems like $\text{Ni}(\text{SCN})_n$, CdI_2 , CdBr_2 , HgCl_2 . For the thiocyanate system and CdI_2 the expl. data obtained agree with those calcd. by Fronaeus (*C.A.* 47, 8582⁶) and Leden (*C.A.* 36, 4044⁹). The $\bar{n} - 1/2$ points do not have a definite chem. significance, but the points where $\bar{n}$ is an integer exhibit a definite chem. meaning in that the corresponding complex attains a max. value at this point. R. S. Mann

JK

BECK, T.

Ring spinning machines in the textile fiber industry. p. 402.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet)
Budapest, Hungary. Vol. 11, no. 10, Oct. 1959.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 12, Dec. 1959.

Uncl.

✓ Determination of the stability constants of protonated metal chelates (preliminary communication). Mihály T. Beck and Sándor Garay (Tech. Univ., Szeged, Hung.). *Magyar Kém. Folyóirat* 65, 413 (1959).—A method is described for calcg. stability constns. of protonated complexes. A formula is given for detg. the ratio of the concn. of complexes to the concn. of the free central ion as a function of the H^+ concn. The protonation can take place according to 3 schemes, depending on the no. of protons taken up by the complex. The stability constns. of Fe(III)-ethylene-diaminetetraacetic acid (EDTA) and Fe(III)-1,2-diamino-cyclohexanetetraacetic acid (DCTA) systems are given.

T. B. Mather

4
1-92(NB)

BECK, Tamas, okl. gepessmernok

Testing methods for bast and yarn used in the Hungarian flax and
hemp industry. Magy textil 13 no.9:386-390 S '61.

BECK, Tamas, okl. gepeszmernok

The "President" and the Tatra-603 automobiles. Auto motor
14 no.3:11 F '61.

BECK, Tamas

Shortened fiber spinning methods. Magy textil 14 no.10:472-477-0 '62.

BECK, Tamas, okleveles gepeszmernok

Some experience with the Super Skoda. Auto motor 15 no.23;13 6 D '62.

DISCHKA, Gyozo, dr., a muszaki ~~tip~~manyok doktora; ASBOTH, Tiborne;
BECK, Tamas; MARTHA, Endre; RESETERITS, Jozsef, mernok

Remarks delivered at the conference on the interactions of
instrumental and organoleptic textile tests and the trend
of their development. Magy textil 15 no.3:134-135 Mr '63.

BECK, Tamas, okleveles gepeszernek

Reconstruction of the Szeged Hemp Spinning Mill. Magyar textil
16 no. 2:65-68 F '64.

BECK, Tamas

Study on the application of the centrifugal spinning machine in the
fiber spinning industry. Magyar Textil 16 no.11:497-502 N '64.

BECK, Tamas, okleveles gepeszmernok

Calculations of spinning centrifuges. Pt.2. Magy textil
16 no.12:539-543 D '64.

BECK, Viktor

Rationalization of office work. Technical prepared 13
no. 4:157-162. '61.

BECK, W.

ZEMPLENYI, T., MUDr; BECK, W., MUDr; SMEJKALOVA, M., MUDr; RAUCHENBERG, M.,
MUDr

Implantation stenosis of liver carcinoma to the heart with a clinical
picture of valvular lesions. Cas. lek. cesk. 93 no.43:1194-1198
22 Oct 54.

1. Z Int. odd. st. obl. nem. v Praze-Motole, prednosta prof. MUDr
V.Jonas. (for Zemplenyi, Beck, Smejkalova) 2. Z prosektury st.
obl. nem. v Praze-Motole, prednosta primar MUDr M.Rauchenberg.
(for Rauchenberg)

(HEART, neoplasms,
metastatic from liver, differ. diag. from valvular
lesions)

(LIVER, NEOPLASMS,
metastatic to heart, simulating valvular lesions)

(CARDIAC VALVES, diseases,
differ. diag. from carcinoma of heart metastatic from liver)

DVORAKOVA-TURKOVA, Vera, MUDr; BECK, Walter, MUDr

Recurrent agranulocytosis. Ces. lek. cesk. 93 no.51-52:1411-1413
24 Dec 54.

1. Interni klinika hygienicko-epidemiologicke fakulty v Praze XII;
Prednosta prof. MUDr Vratislav Jonas
(AGRANULOCYTOSIS
recur., pathol.)

BECK, WALTER

7 Allergic reaction of pituitary adrenocorticotrophic hormone (ACTH) and cortisone. Walter Beck (Hyg. Inst., Prague). *Časopis Lékařů Českosl. 94: 913-16 (1956)*.—Eight cases of patients exhibiting allergic symptoms following the administration of ACTH preparations of various origin are presented. The reasons for the failure of ACTH treatment of urticaria are discussed. Skin tests should be made before the hormone therapy in sensitive individuals.

MD (1)

J. M. Hahn

BECK, W.

CZECHOSLOVAKIA/Pharmacology. Pharmacognosy. Toxicology -
Hormone Preparations.

T-7

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71816

Author : Beck, W.

Inst :

Title : The Treatment of Asthma with ACTH and Cortisone.

Orig Pub : Casop. ledaru ceskych., 1955, 94, No 28, 761-766

Abstract : No abstract.

2 Kliniky nemocí vnitřních hygienické
fakulty Karlovy Univerzity v Praze
XII, přednáška prof. MUDr. Vratislava
Jonáše

Card 1/1

- 72 -

EXHIBIT 10000 Sec 2 of 11/7 Summary July 59

3)

3982. A CLINICAL CONTRIBUTION TO THE TREATMENT OF ULCERATIVE COLITIS WITH ACTH - Klinický příspěvek k léčbě ulcerosní colitidy adrenokortikotropním hormonem předního laloku hypofýzy - Beck W. Klin. Nemocni Vnitřn. Lék. Fak. Hyg. KU, Praha - CAS. LÉK. ČES. 1958, 97/26 (807-812) Tables 1

ACTH was administered to 9 patients with severe ulcerative colitis mainly by i. v. route. Two patients received ACTH i. m. The immediate clinical response was good: fall in temperature, abdominal pain subsided, appetite increased, and subjective feelings were excellent. Bloody diarrhoea decreased slowly. Rectoscopic findings improved, but far more slowly than subjective complaints. On interruption of ACTH, all signs returned in 3 patients, but these reacted well to ordinary treatment. Of the rest, 5 patients have long-term good results. One death cannot be definitively ascribed to ACTH.

BETLHEIM, S.; BLAZEVIC, D.; BECK-DVORZAK, M.; BUCAN, N.; CIVIDINI, E.;
KATIVIC, N.; RADOSEVIC, Z.

Role of psychological tests during psychotherapy of neurotic patients.
Neuropsihijatrija 8 no.4:254-260 '60.

1. Iz Neurolosko-psihijatrijske klinike Medicinskog fakulteta
Sveucilista u Zagrebu - Psihoterapijski odjel (Predstojnik, Prof.
dr. R. Lopasic).

(PSYCHOTHERAPY) (PSYCHOLOGICAL TESTS)

BETLHEIM, S.; BLAZEVIC, D.; BECK-DVORZAK, M.; BUCAN, N.; CIVIDINI, E.

Effect of physical injuries on the etiology and structure of
neuroses. Neuropsychiatria 11 no.2:143-149 '63.

1. Iz Neurolosko-psihijatrijske klinike Medicinskog fakulteta
u Zagrebu (Predstojnik: Prof. dr. R. Lopasic).

PERSIC, Nikola, dr.; BETLHEIM, Stjepan, dr.; BLAZEVIC, Duska, dr.;
BECK-DVORZAK, Maja, dr.; BUCAN, Neda, dr.; CIVIDINI, Eugenija, dr.;
RADOSEVIC, Zlata, prof.

Attitude of the milieu toward the mentally ill. Liječn. vjesn.
87 no.4:385-395 Ap '65.

1. Iz Neurolosko-psihijatrijske klinike Medicinskog fakulteta
u Zagrebu.

BECKA, A., MUDr.

Experiences with dispensary services for miners. Cesk.
zdravot. 4 no.6:337-338 June 56.

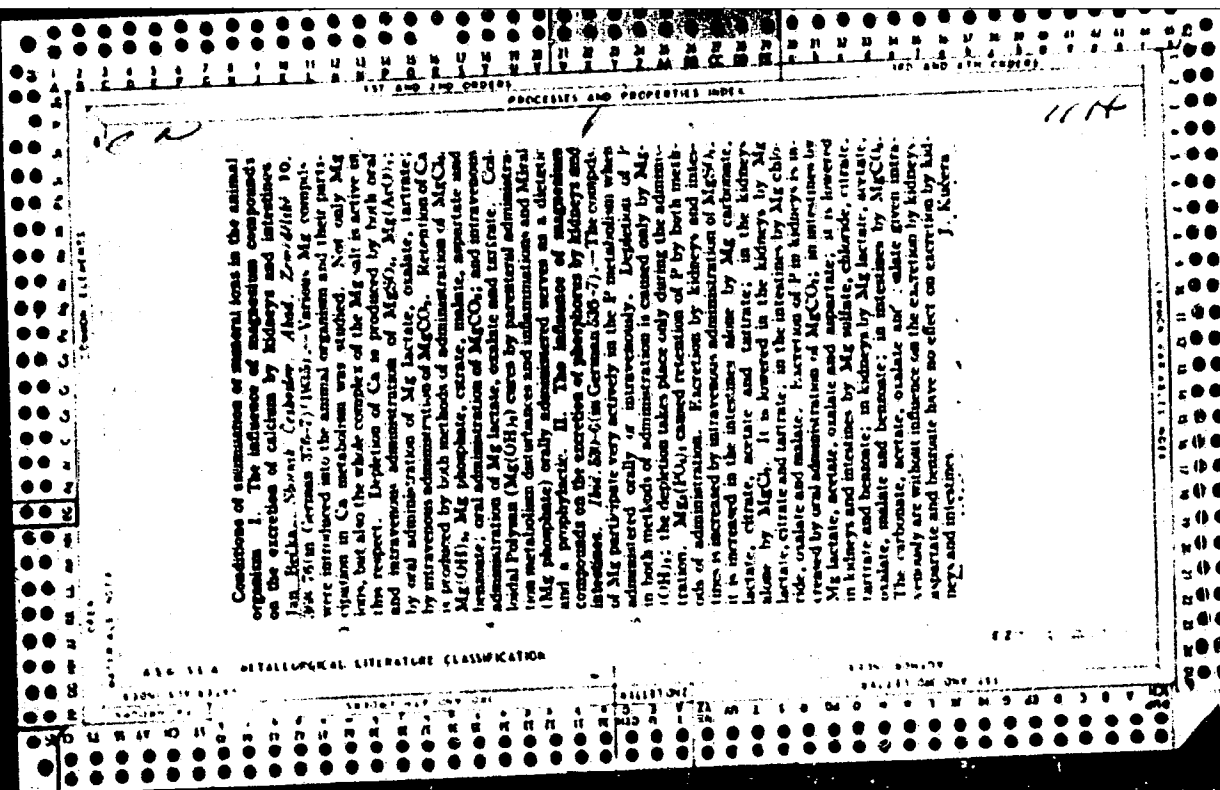
1. Zavodni lekar dolu Gottwald, Kladno.

(MINING,

dispensaries for miners in Czech. (Cz))

(INDUSTRIAL HYGIENE,

dispensaries for miners in Czech. (Cz))



PERCENTAGE AND PROPERTIES INDEX																	
7-3 BC Abstract: controlling excretion of minerals in the animal organism. I. Effect of magnesium concentration on sodium excretion by kidney and intestine. J. Biol. Chem. ed. Acad. Sci., 1951, 16, 227-271. The effect of Mg compounds administered to rabbits on the excretion of Na⁺, urine and feces depends not only on Mg but also on the state of urinary and fecal excretion are affected (increased or decreased) sometimes in the same and sometimes in opposite ways, and the same holds in relation to method of administration (oral and intravenous).																	
ASD-ELA METALLURGICAL LITERATURE CLASSIFICATION																	
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PROCESSED AND PRIORITIZED INDEX

118

Biochemistry and toxicology of oxalic acid. Directions for the prophylaxis and therapy of oxaluria. Jan Betka and Rek. Bratislava. Lekárske Listy 15, 701-16(1935). The toxic effect of oxalic acid on an organism is described, based on the exper. carried on with rabbits, as well as the prophylaxis and therapy of oxaluria and acute poisoning with oxalic acid. V. D. Karpenko

ASAC 55.4 METALLURGICAL LITERATURE CLASSIFICATION

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PROCESSES AND PROPERTIES INDEX																									
69 117 ASSIMILATION OF INORGANIC IONS IN THE ANIMAL ORGANISM. III. INFLUENCE OF SOME SODIUM COMPOUNDS ON THE EXCRETION OF CALCIUM BY KIDNEY AND INTESTINES. Jan Becka. <u>Sbornik Geokhologii. Akad. Zemel'skiye</u> 11, 60-6 (in German 66-7) (1930); cf. C.A. 30, 30922. On acid feeds, such as oats, the ratio of Ca excretion by intestine to that by kidney is lowered, often to the value of 1:1. On alk. feeds the ratio is 10:1. The lower ratio indicates that Ca is being "washed out" of the organism. Administration of alk. Na salts decreases urinary excretion of Ca. J. Kucera																									
450.554 METALLURGICAL LITERATURE CLASSIFICATION																									

The assimilation of mineral ions in the animal organism.
1. H-lla. Shvachko, A.S., Zvezditskiy I.I.,
1984 (USSR); cf. C. A. 30, 30024. The acidic state of
the organism expresses itself either by a low reserve of
alkali, in mild cases, or by a lower pH of the blood in severe
cases. The normal state of alk. reserve and the normal
 pH of the blood of domestic animals are given. The
above-mentioned state is responsible for the low resist-
ance of the organism for different illnesses. V. D. K.

ALU-SLA METALLURGICAL LITERATURE CLASSIFICATION

1984-1985

1986-1987

1988-1989

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1994-1995

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BECKA - J,

✓ Hexachlorobenzene and pentachloronitrobenzene as wheat stink-smut preventives. Miroslav Toman, Mirko Škrobal, Teodor Magdolen, Jan Bečka, Juraž Synak, Štefan Liko, Ján Baráth, Anton Šály, and Jozef Marciniek. *Pol'nohořodárstvo* 3, 218-23(1956)(Russian and German summaries.)—A brief survey is presented of the literature describing the chem. and fungicidal properties of hexachlorobenzene (I) and of pentachloronitrobenzene (II). It was shown that in doses of 20 g. active compd. per 200 g. of disinfectant per quintal of grain I is superior to II as a fungicide against *Tilletia foetida*. B. S. Levine

9

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Some problems of starting captan production in Czechoslovakia.
Agrochem 2 no.1:13-15 '62.

1. Vyskumny ustav agrochemickej technologie, Bratislava.

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S/137/62/000/004/165/201

A154/A101

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AUTHOR:

Bečka, J.

TITLE:

Operationally welding together large-dimension rings from four segments by the electroslog method

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 26, abstract 4E128 ("Zváranie", 1961, 10, no. 10, 293 - 295, Czech)

TEXT: At the zavod im. V.I. Lenina (Imeni V.I. Lenin Plant) (Pilsen) rings with a diameter of ~5,000 and a cross section of 2,000 x 170 mm are made by welding instead of forging from a 180 - 200-ton ingot of grade 13 steel. Four segments of an experimental ring were made from 40 - 50-ton ingots. Manual arc welding, automatic submerged arc welding and electroslog welding were tried out first on specimens, preference being given to electroslog welding. The edges of the segments and the surfaces in contact with the fastening cleats were machined under the assumption that each weld would have a regular 4 mm transverse shrinkage along its entire length. The segments were set up with a gap of 30 ± 1 mm between them and then fastened together. Welding was done with an A-372-R automatic welder fed from a three-phase TSS-1000-3 transformer with rigid static

Card 1/2

Operationally welding together large-dimension

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A154/A101

characteristics by the step-back method without preheating. After welding, ultrasonic inspection revealed no flaws in the welds. The mean diameter of the finished ring differed from that required by 1.6 mm. Due to irregular transverse shrinkage along the entire length of the welds, the ring showed slight conicity (the difference in transverse shrinkage between the beginning and end of the welds was 3.2 mm). In future a mean transverse weld-shrinkage of ~ 5.5 mm must be allowed for when fastening the segments together. 4

Ye. Greyl'

[Abstracter's note: Complete translation]

Card 2/2

EECKA, J.

Electric traction.

p. Hl. (Elektrotechnik) Vol. 12, no. 10, Oct. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

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"Electric traction."

(Supplement) p. H33 (Elektrotechnik) Vol. 12, no. 12, Dec. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BECKA, Jiri, inz.

Control of the transformer heating in electric locomotives under variable voltage. Doprava no.1:44-48 '63.

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ZUPACK packing machine. Prum potravin 14 no.8:429-431 Ag '63.

1. Oborove stredisko, Zavody potravinarskych a chladicich stroju,
n.p., Praha.